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#### ABSTRACT

✓ This is a working draft of a future reference bibliography on distributed systems, their architecture and principally their controlling software known as an executive or operating system. The general operating systems literature pertaining to those issues which are considered most relevant for distributed systems (i.e., Communications and Synchronization, Protection, Fault-Tolerance, System Structuring Concepts, Programming and Control Languages) has also been included. ↗

#### ADMINISTRATIVE INFORMATION

This technical memorandum was prepared under NUSC Project No. A99250, "Operating System Design Issues for Distributed Systems", Principal Investigator C. R. Arnold (Code 313), Program Manager, D. Doherty (Code 8241), Naval Ocean Systems Center; and NUSC Project No. A99200, "Computer Operating System for SEAMOD Distributed Architecture", Principal Investigator, C. R. Arnold (Code 313), Program Manager, C. E. Lawson (Code 0328), Naval Sea Systems Command.

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## INTRODUCTION

This is a working draft of a future reference bibliography on operating system design issues for distributed systems. As such it includes the literature on distributed systems, their architecture, their controlling software known as an executive or operating system.

First one needs a working definition of "distributed system". For our purposes, we first characterize distributed computer system in terms of a coupling parameter such that,

- 1) multiprocessors and array computers are tightly coupled,
- 2) computer networks such as ARPANET are loosely coupled,
- 3) and HXDP (E. D. Jensen 1978) as a primary example of a system with intermediate coupling.

For possible application to future Navy combatants, the intermediate coupled systems (3 above) appear to offer the greatest potential. Moreover, HXDP provides a hardware basis for a distributed system which can meet Enslow's (1978) definition to which we fully subscribe. Consequently, this bibliography is primarily concerned with hardware architecture like HXDP and their supporting high-level (global) operating system.

That is not to say that the parallelism concepts required for multiprocessors or the communications/synchronizations protocols of computer networks are not of interest here. Many of the same design issues for operating systems are encountered in both centralized and various types of distributed systems. Often, they are conceptually the same but from the standpoint of implementation quite different techniques are required for their resolution on different hardware architectures. Other design issues such as memory management and processor scheduling which dominate in centralized systems are of little consequence for a (global) operating system for HXDP. Consequently this bibliography also contains many (not necessarily complete) references to the general literature on operating systems which treat those issues which are considered most relevant for distributed systems. Specifically, they are the following design issues:

- 1) Process Communications/Synchronization
- 2) Protection and Related Issues
- 3) System Fault-Tolerance



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- 4) System Structuring Concepts
- 5) Control and Programming Languages

The bibliography itself consists of two listings. The first one is alphabetical by author or first author with additional entries for multiple authors. The second listing is chronological by subtopics with possible (at most one) duplicates. Specific subtopics include the above issues as well as the following:

- a) Books and Collected Works
- b) Distributed Systems (General)
- c) Distributed (Hardware) Architectures
- d) Computer Network Issues
- e) Specific Operating Systems
- f) Distributed Data-Base Issues
- g) Concurrent or Parallel Processing
- h) Formal Models/Verification Techniques

Any comments, additions and/or corrections will be thoughtfully received. There will be future revisions/releases. Copies or reprints will also be greatly appreciated as an aid to final subtopic classification. They should be mailed to:

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FOR

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DATE= APRIL 3, 1978

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